PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 5 (BRANCH AVENUE) AND MD 373 (ACCOKEEK ROAD) IN PRINCE GEORGE'S COUNTY, MARYLAND, MD 5 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION,

II. INTERSECTION OPERATION

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER SHALL BE REMOVED AND A NEW BASE MOUNTED CABINET AND CONTROLLER SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL CONTINUE TO OPERATE IN A FULL ACTUATED MODE USING 7 NEMA PHASES. VIDEO DETECTION SHALL BE INSTALLED. THE LEFT TURN PHASE ALONG NORTHBOUND MD 5 (BRANCH AVENUE) SHALL OPERATE WITH EXCLUSIVE LEFT TURN PHASING. THE LEFT TURN PHASES ALONG EASTBOUND AND WESTBOUND MD 373 (ACCOKEEK ROAD) SHALL OPERATE WITH EXCLUSIVE/PERMISSIVE LEFT TURN PHASING. THE CONTRACTOR SHALL CONTACT MR. EDWARD RODENHIZER. SIGNAL SHOP SUPERVISOR. 2 WEEKS IN ADVANCE OF ANY CHANGES THAT WILL BE NEEDED TO THE SIGNAL PHASING AS IT RELATES TO SPECIFIC WORK BEING PERFORMED DURING EACH PHASE OF CONSTRUCTION.

NOTES

- 1. FOR FINAL PAVEMENT MARKINGS, REFER TO THE PAVEMENT MARKING PLANS, AS APPLICABLE: OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH ADMINISTARTION STANDARDS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABLE EACH CABLE.
- 3. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN THE APPROPRIATE 800 SERIES STANDARD PLATES. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- 4. DISCONNECTING AND SPLICING OF INTERCONNECT CABLE SHALL BE PERFORMED BY THE CONTRACTOR, THE CONTRACTOR SHALL RUN THE INTERCONNECT CABLE INTO THE BASE OF EACH CABINET AND PROPERLY TAG THE CABLE, CONTACT MR.EDWARD RODENHIZER AT (410) 787-7652 SEVENTY-TWO HOURS IN ADVANCE OF INTENDED WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- THE CONTRACTOR SHALL MAINTAIN THE CONTINUOUS OPERATION OF ALL INTERCONNECT, VEHICULAR, PEDESTRIAN DETECTORS, AND LIGHTING DEVICES. IF ANY DEVICE IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPAIRED WITHIN 72 HOURS BY THE CONTRACTOR AT NO COST TO THE ADMINISTRATION AFTER NOTIFICATION BY THE ENGINEER.
- 7. THE PUSHBUTTON ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE STATE HIGHWAY ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	BASE MOUNTED (SIZE 6) CABINET AND CONTROLLER (MSHA SPECIFICATION) WITH VIDEO DETECTION INTERFACE EQUIPMENT FOR 1-4 CAMERAS	EA	1
973023	SHEET ALUMINUM SIGNS CONSISTING OF:	SF	55.25
	SHEET ALUMINUM SIGNS CONSISTING OF: R3-5(L) (30"x36") MAST ARM MOUNT R3-1 (30" x30") MAST ARM MOUNT D-3(2) (VAR.X16") MAST ARM MOUNT R10-3(1) (9"x15") POLE MOUNT SIGN TO READ "PUSHBUTTON TO CROSS BRANCH AVE" INT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR	E A E A E A	2 1 4 2
B. EQUIPME	NT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR		
CAT CODE	DESCRIPTION	UNITS	QUANTITY
203030 585412 585414 800000 800000 800000 800000 800000 800000 801004 802501 805115 805125 805135 805125 805135 80510601 810605 811001 813015 816005 818004 818030 818030 818030 818030 818052 831010 837001 860265 861105 861106 861106 861106 861106 861106 861106	TEST PIT EXCAVATION 12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS 24 INCH WHITE LEAD FREE REFLECTIVE THERMO. PAVEMENT MARKING REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT 2—WIRE CENTRAL CONTROL UNIT AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON STATION 16 IN. LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION PEDESTAL POLE MOUNT PULL BACK AND RERQUITE EXISTING INTERCONNECT CABLE RELOCATE EXISTING VIDEO DETECTION CAMERA RELOCATE EXISTING VIDEO DETECTION CAMERA RELOCATE EXISTING SIGN ON SIGNAL STRUCTURE CONCRETE FOR SIGNAL FOUNDATION NO. 6 AWG STRANDED BARE COPPER GROUND WIRE 3 INCH SCHEDULE 80 RIGID PVC CONDUIT — BORED 4 INCH SCHEDULE 80 RIGID PVC CONDUIT — TRENCHED 3 INCH SCHEDULE 80 RIGID PVC CONDUIT — TRENCHED 4 INCH SCHEDULE 80 RIGID PVC CONDUIT — TRENCHED METERED SERVICE PEDESTAL NON—INVASIVE DETECTORS. 500 FOOT LEAD — IN CABLE NON—INVASIVE DETECTORS. 500 FOOT LEAD — IN CABLE FURNISH AND INSTALL ELECTRICAL HANDHOLE INSTALL GVERHEAD SIGN CONTROL CABLE, 250 FOOT, VIDEO DETECTION CONTROL CABLE, 500 FOOT, VIDEO DETECTION 10 FOOT BREAKAWAY PEDESTAL POLE STEEL POLE WITH SINGLE 38 FT. MAST ARM STEEL POLE WITH SINGLE 70 FT. MAST ARM STEEL 70 FT.	LF LS EA	2 500 150 1 1 2 2 13 5 450 40 565 11 4 3 3 5 5 2 2 2 1 1 1 5 1 3 5 1 3 5 1 3 5 1 3 5 1 3 1 3
866104 871202	20 FT, LIGHTING ARM ON SIGNAL STRUCTURE INSTALL CONTROLLER AND CABINET — BASE MOUNT	E A E A	1 1

THE CONTRACTOR SHALL DELIVER AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON STATION AND BASE UNIT TO THE SHA SIGNAL SHOP PRIOR TO LOCATION INSTALLATION FOR PROGRAMMING. SHA FORCES SHALL INSTALL AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON BASE UNIT IN THE CABINET.

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXIALLARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER EQUIPMENT TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

NOTES (Continued)

- APS WILL FUNCTION AS FOLLOWS:
- TO CROSS BRANCH AVENUE

 A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE MESSAGE
 WILL BE "WAIT TO CROSS BRANCH AT ACCOKEEK."
- B. WHEN WALK PHASE BEGINS. THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.
- 9. THE THE 10 FT. SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE, PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- 10. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED AND APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

<u>DIS</u>

MR. RICHARD DAFF SR. CHIEF. TRAFFIC OPERATIONS

OFFICE OF TRAFFIC AND SAFETY

CONTACTS

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 ASSISTANT DISTRICT ENGINEER MAINTENANCE
 301-513-7630
- MR. RICHARD L. DAFF CHIEF. TRAFFIC OPERATIONS DIVISION 410-787-7630

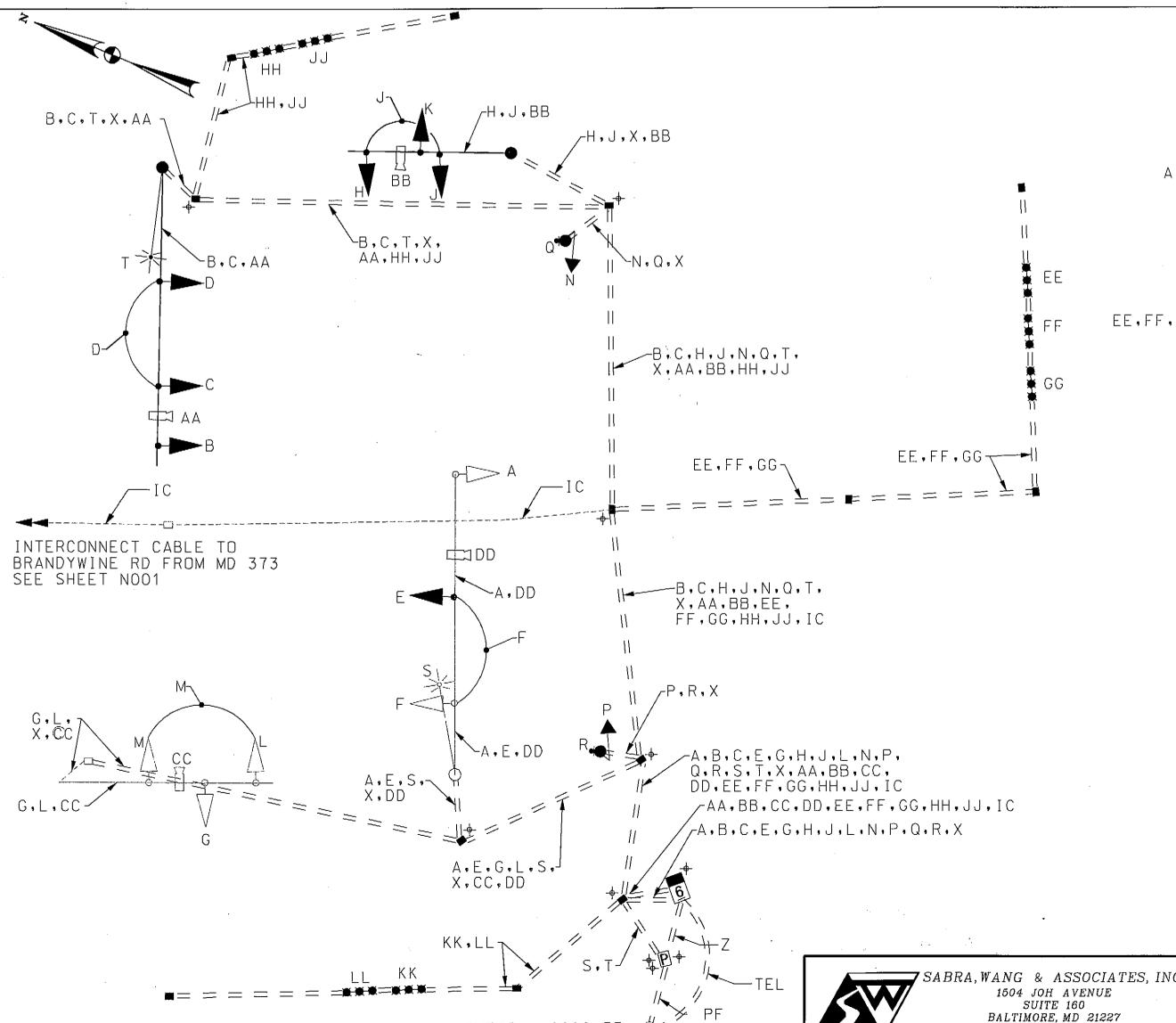
POWER COMPANY

SOUTHERN MARYLAND ELECTRICAL COOPERATIVE 4061 POWDER MILL ROAD, SUITE 600 CALVERTON, MD 20705 301-843-6142

PHASE CHART

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										11		
(4 Y) (4 Y)	(R) (Y) (G)	R Y G	RYG	(R) (Y) (G)	(R) (Y) (G)	(R) 4 Y−(Y) 4 G G	R Y Y Y G G	(R) (Y) (G)	(R) (Y-) Y (G) (G)	R) (Y) (Y) (G) (G	(R) (Y) (G)	

PHASE 1 AND 6	← G−	← G−	G	G	R	R	R	R	R	R	R	R	DW	DW	
1 AND 6 CHANGE	← Y−	← Y−	G	G	R	R	R	R	R	R	R	R	DW	DW	-1 \$\frac{1}{4}\$
PHASE 2 AND 6	← R−	← R−	G	G	G	G	R	R	R	R	R	R	DW	DW	
2 AND 6 CHANGE	← R−	◆R-	G	G	G	G	R	R	R	R	R	R	DW	DW	
PHASE 3 AND 7	4 -R−	← R−	R	R	R	R	← G⁄R	+G⁄R	R	+ G⁄R	← G⁄R	R	DW	DW	
3 & 7 CHANGE TO 3 AND 8,	4 AN	7, 4	AND	8, OR	4 AN	D 8 /	ALT.								4
PHASE 3 AND 8	← R−	← R	R	R	R	R	← G⁄G	← G⁄G	G	R	R	R	DW	DW	* *
3 AND 8 CHANGE	← R−	← R-	R	R	R	R	+Y⁄G	← Y/G	Υ	R	R	R	DW	DW	4
PHASE 4 AND 7	← R−	← R-	R	R	R	R	R	R	R	← G⁄G	← G⁄G	G	DW	DW	
4 AND 7 CHANGE	← R−	← R−	R	R	R	R	R	R	R	← Y⁄G	← Y⁄G	G	DW	DW	H \ _
PHASE 4 AND 8	- R−	← R	R	R	R	R	G	G	G	G	G	G	DW	DW	
4 AND 8 CHANGE	← R−	← R−	R	R	R	R	Υ	Y	Y	Υ	Y	Υ	DW	DW	H ▼
PHASE 4 AND 8 ALT	← R−	← R−	R	R	R	R	G	G	G	G	G	G	W	W	
PED CLEARANCE	← R−	← R−	R	R	R	R	G	G	G	G	G	G	FL/DW	FL⁄DW	
4 AND 8 ALT CHANGE	← R−	← R−	R	R	R	R	Υ	Y	Y	Υ	Y	Υ	DW	DW	▼ -
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	+ +



SMECD # 6622-53

KEY

A,B,D,F,J,M,N.P } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

Q,R 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

AA,BB,CC,DD } VIDEO DETECTION CABLE

EE, FF, GG, HH, JJ, KK, LL } NON-INVASIVE DETECTOR LEAD-IN CABLE

(NO. 12 AWG) TRAY CABLE

- x } 1 CONDUCTOR (NO, 6 AWG) BARE STRANDED COPPER GROUND WIRE
- PF> POWER FEED BY OTHERS (SMECO)
- z } 3 WIRE 1 CONDUCTOR (NO. 4 AWG)
- IC EXISTING INTERCONNECT CABLE
- TEL TELEPHONE SERVICE (BY OTHERS)

+ GROUND ROD



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 5 (BRANCH AVENUE)

AT MD 373 (ACCOKEEK ROAD)

TRAFFIC SIGNAL PLAN

SCALE NTS ADVERTISED DATE 02/17/2009 CONTRACT NO. PG1755270

DESIGNED BY V. NALLAMOTHU COUNTY PRINCE GEORGE'S

DRAWING pSG OF N002

DRAWN BY V.NALLAMOTHU

CHECKED BY K.RINIKER

F.A.P. NO. SEE TITLE SHEET

COUNTY PRINCE GEORGE'S

LOGMILE 16000503.06

TIMS NO. J437

TOD NO.

SHEET NO. 100 OF 110

PLOTTED: Friday, February 13, 2009 AT 08:08 AM
FILE: R:\2003\40 BC\$ 2003-08D WRA JMT\Task 53 MD 5 at MD 373 and Brandywine\dwg\Signal\pSG-N002_MD5.dgn

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